

US 13 BUSINESS IS ASSUMED
TO RUN IN A NORTH-SOUTH DIRECTION

PROPOSED LED SIGNALS

1,2,3,
4,5,6,7

(R)
(Y)
(G)

12"



16" LED
COUNTDOWN
PEDESTRIAN
SIGNAL

PROPOSED VIDEO DETECTION CAMERA

b

10,12



R3-2
(30"x30")

RELOCATED VIDEO DETECTION CAMERA

b

11,14

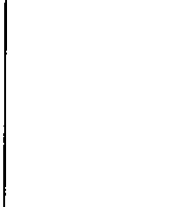


Church ST
D-3(1)
(VAR. X16")
DUAL FACED

PROPOSED OPTICOM

c

19



SHIELD
ASSEMBLY
(24"x51")

EXISTING SIGNS

15



16



17



18



NEMA PHASING

02



04



PRE-EMPTION
PHASE 04

06



04 ALT.



NOTE:
PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

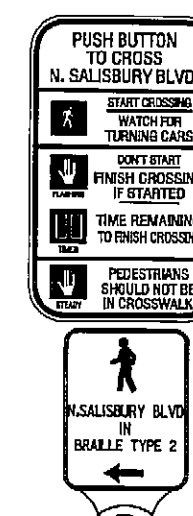
ACCESSIBLE PEDESTRIAN PUSHBUTTON AND SIGN

26



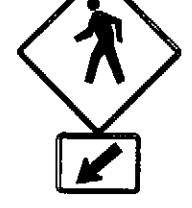
R10-3(1)
(9"x15")

27



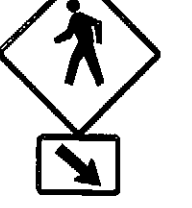
R10-3(1)
(9"x15")

20



W11-2
(30"x30")
FY
M6-2 (MOD)
(21"x15")
FY

21



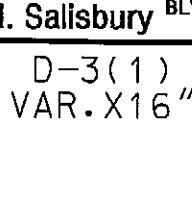
W11-2
(30"x30")
FY
M6-2 (MOD)
(21"x15")
FY

22



SHIELD
ASSEMBLY
(36"x75")

25

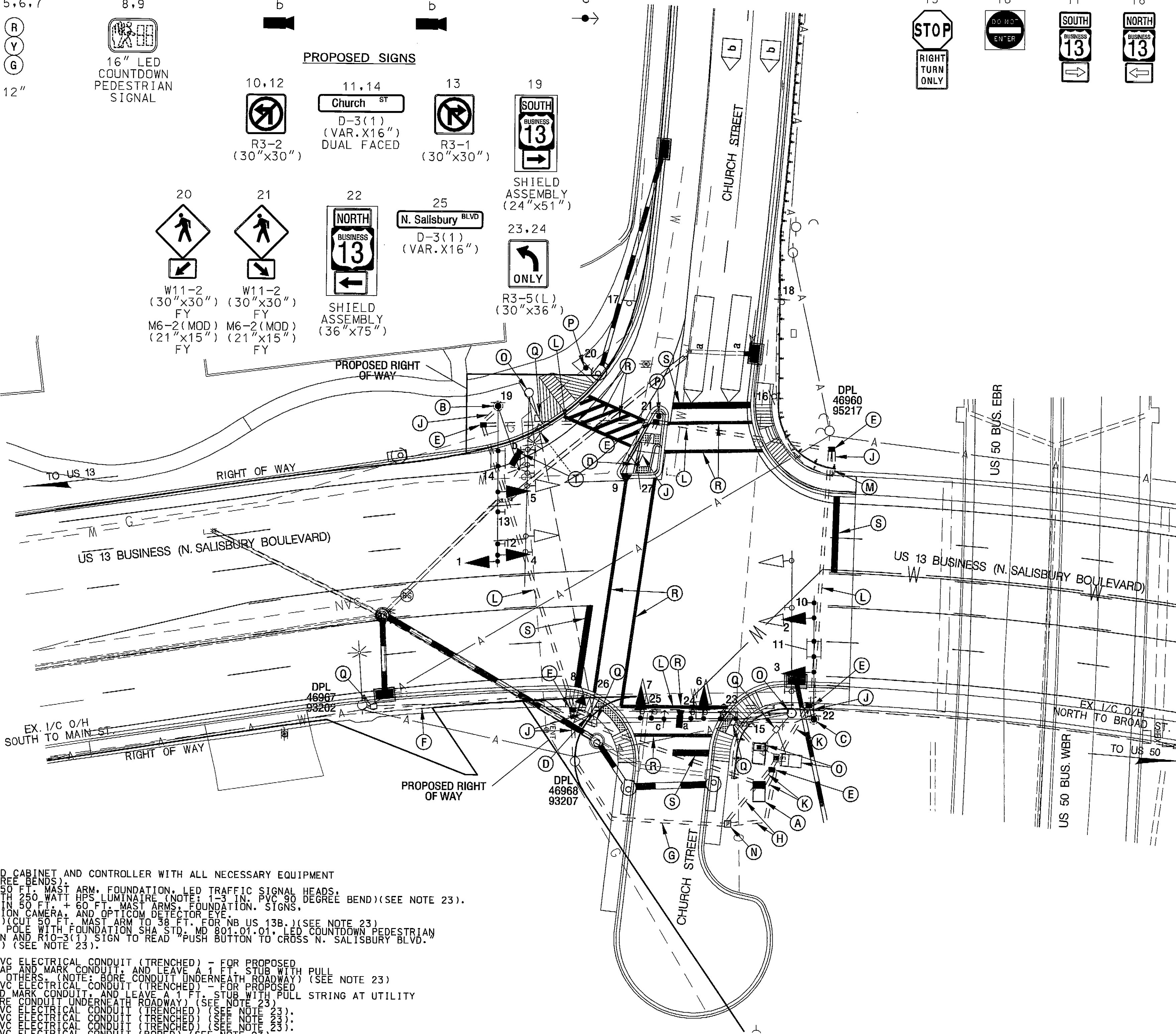


N. Salisbury Blvd
D-3(1)
(VAR. X16")

23,24



R3-5(L)
(30"x36")
ONLY



CONSTRUCTION DETAILS

- INSTALL NEMA SIZE "6" BASE MOUNTED CABINET AND CONTROLLER WITH ALL NECESSARY EQUIPMENT (NOTE: 2-2 IN. AND 2-4 IN. 90 DEGREE BENDS).
- INSTALL 2-2 IN. STEEL POLE WITH A 50 FT. W/2 ARM. FOUNDATION. LED TRAFFIC SIGNAL HEADS, SIGNS, AND 20 FT. LIGHTING ARM WITH 250 WATT HP LUMINAIRE (NOTE: 1-3 IN. PVC 90 DEGREE BEND) (SEE NOTE 23).
- INSTALL 2-1 FT. STEEL POLE WITH TWIN 50 FT. + 60 FT. MAST ARMS. FOUNDATION. SIGNS, LED TRAFFIC SIGNALS, VIDEO DETECTION CAMERA, AND OPTICOM DETECTOR EYE (NOTE: 1-3 IN. PVC 90 DEGREE BEND) (CUT 50 FT. MAST ARM TO 38 FT. FOR NB US 13B.) (SEE NOTE 23).
- INSTALL 10 FT. BREAKAWAY PEDESTAL POLE WITH FOUNDATION SHA STD. MD 801.01.01. ED COUNTDOWN PEDESTRIAN SIGNAL HEAD, ACCESSIBLE PUSHBUTTON AND R10-3(1) SIGN TO READ "PUSH BUTTON TO CROSS N. SALISBURY BLVD." (NOTE: 1-3 IN. PVC 90 DEGREE BEND) (SEE NOTE 23).
- INSTALL ELECTRICAL HANDHOLE.
- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) - FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUIT. AND LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS (NOTE: BORE CONDUIT UNDERNEATH ROADWAY) (SEE NOTE 23).
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) - FOR PROPOSED UNDERGROUND POWER SERVICE. CAP AND MARK CONDUIT. AND LEAVE A 1 FT. STUB WITH PULL STRING AT UTILITY POLE FOR USE BY OTHERS (NOTE: BORE CONDUIT UNDERNEATH ROADWAY) (SEE NOTE 23).
- INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) (SEE NOTE 23).
- INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) (SEE NOTE 23).
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) (SEE NOTE 23).
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) (SEE NOTE 23).
- INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (BORED) (SEE NOTE 23).
- INSTALL PROPOSED CONDUIT INTO EXISTING BRIDGE PARAPET CONDUIT.
- INSTALL METERED SERVICE PEDESTAL (NOTE: 2-2 IN. 90 DEGREE PVC BENDS).
- REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT. REMOVE FOUNDATION 12 IN. BELOW GRADE. CAP AND ABANDON ALL EXISTING CONDUIT(S).
- INSTALL GROUND MOUNTED SIGN ON ONE 4 IN. X 4 IN. WOOD POST (SEE NOTE 25).
- REMOVE EXISTING ELECTRICAL HANDHOLE. CAP AND ABANDON ALL EXISTING CONDUIT(S).
- INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK (SEE NOTE 22).
- INSTALL 12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS FOR STOPLINE (SEE NOTE 22).
- RELOCATE EXISTING VIDEO DETECTION CAMERA ONTO PROPOSED LIGHTING ARM.

GENERAL NOTES

- MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING MOSHA STANDARD TYPICALS FOR TRAFFIC CONTROL.
- THE CONTRACTOR SHALL CONTACT MISS UTILITY TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO THE INSTALLATION OF PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
- WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND.
- ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- THE CONTRACTOR SHALL INTEGRATE PROPOSED/EXISTING CONCRETE FOUNDATIONS WITH NEW CURB/SIDEWALK RAMP WHERE NECESSARY.
- THE SHA SIGNAL SHOP WILL BE RESPONSIBLE FOR ALL INTERNAL CABINET WIRING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUTING AND PROPERLY LABELING ALL SIGNAL CABLES.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED ELECTRICAL CABLES.
- ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATION.
- THE CONTRACTOR SHALL VERIFY THE PROPOSED POLE AND CABINET LOCATION(S) PRIOR TO INSTALLATION.
- SEE GENERAL INFORMATION SHEET FOR CABINET, SIGNAL POLE, APS ASSOCIATED SIGNAL HEADS AND PUSHBUTTONS, VIDEO DETECTION CAMERA, TRAFFIC SIGNAL HEAD, CROSSWALK, STOPLINE, AND SIGN LAYOUTS.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MOSHA STANDARDS.
- VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2; AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL THE CONFLICT HAS BEEN RESOLVED. IF NEEDED, A DESIGN WAIVER SHALL BE OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- PUSHBUTTON IS TO BE LOCATED SO THAT A PEDESTRIAN IN A WHEELCHAIR LOCATED ON THE LEVEL LANDING AREA DOES NOT HAVE TO REACH MORE THAN 18 IN.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR FROM A 60 IN. X 60 IN. LEVEL LANDING AREA. A LEVEL LANDING AREA IS AN AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- THE 10 FT. MINIMUM SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER OF POLE TO CENTER OF POLE.
- PUSHBUTTON ARROWS SHOULD BE TURNED PARALLEL TO THE CROSSWALK FOR WHICH THEY ARE INTENDED.
- ALL ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. CONTACT MR. EDWARD RODENHIZER AT 410-787-7650 TO COORDINATE.
- THE CONTRACTOR SHALL REMOVE AND REPLACE CONCRETE SIDEWALK AT THE NEAREST JOINT.
- ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCELL.
- THE CONTRACTOR SHALL ENSURE THE EXISTING TRAFFIC SIGNAL REMAINS OPERATIONAL UNTIL RECONSTRUCTED TRAFFIC SIGNAL IS FUNCTIONAL. (SEE TRAFFIC CONTROL PLANS FOR DETAILS ON MAINTENANCE OF TRAFFIC.)
- THE CONTRACTOR SHALL INSTALL THE FINAL CROSSWALK AND STOP LINE PAVEMENT MARKINGS AFTER THE FINAL PAVEMENT SURFACE IS COMPLETE.
- THE CONTRACTOR SHALL INSTALL ALL PROPOSED CONDUIT/POLE FOUNDATIONS PRIOR TO THE CONSTRUCTION OF PROPOSED SIDEWALK/CURB AND GUTTER THROUGHOUT PHASES OF CONSTRUCTION.
- THE CONTRACTOR SHALL REFER TO FIGURE 3B-17d OF THE 2006 MARYLAND M.U.T.C.D. FOR CROSSWALK PAVEMENT MARKING DETAIL.
- THE CONTRACTOR SHALL INSTALL A 6 INCH SLEEVE IN ALL CONCRETE AREAS WHERE SIGNS ARE PROPOSED.

STV Incorporated

engineers/architects/planners/construction managers
7125 Ambassador Road, Baltimore, MD 21244-2722 (410) 944-9112

UTILITY LEGEND

- | | | | |
|-------|------------------|---------|-------------|
| —E—E— | ELECTRIC CABLES | —SD—SD— | STORM DRAIN |
| —A—A— | AERIAL CABLES | —G—G— | GAS MAIN |
| —T—T— | TELEPHONE CABLES | —W—W— | WATER MAIN |
| —F—F— | FIBER-OPTIC | —S—S— | SEWER MAIN |

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 13 BUSINESS (N. SALISBURY BOULEVARD)

AT CHURCH STREET

ULTIMATE SIGNAL

SIGNALIZATION PLAN SHEET

SCALE 1" = 20' ADVERTISED DATE 02/08/04 CONTRACT NO. WL-633-502-185

DESIGNED BY THOMAS ZAYDEL COUNTY WICOMICO

DRAWN BY THOMAS ZAYDEL LOGMILE 22B01305.58

CHECKED BY DENNIS DODA JR. TMS NO. J116

F.A.P. NO. TOD NO.

TS NO. 1942-E3 DRAWING SG-07 OF 10 SHEET NO. OF

PLOTTED: Friday, November 14, 2008 AT 08:30 AM
FILE: I:\PROJECTS\0312121\0312121_0029\Drawings\TRA\US 13 Business at US 50 Bridge\Drawings\Church\pSG-P007_US13B_Ultimate.dgn